

Contents of Volume 54

Number 1

- 1 Estimating parameters of intensity function and maintenance effect for repairable unit
I. SHIN, T. J. LIM & C. H. LIE (Korea)
- 11 A new approach to the cumulative operational time for semi-Markov models of repairable systems
A. CSENKI (UK)
- 23 Residual life of technical systems; diagnosis, prediction and life extension
R. REINERTSEN (Norway)
- 35 On safety enhancements for medical robots
W. S. NG & C. K. TAN (Singapore)
- 47 SAPHIRE 'Recover Cut Sets' editor: a technique for automating the manipulation of PRA cut sets
C. L. SMITH & R. D. FOWLER (USA)
- 53 Nonparametric estimation for accelerated life tests under intermittent inspection
DO SUN BAI & NAK YOUNG LEE (Korea)
- 59 Analogical reasoning for reliability analysis based on generic data
I. O. KOZIN (Denmark)
- 65 The impact of improved vehicle design on highway safety
J. S. EISELE, Y. Y. HAIMES, N. J. GARBER, D. LI, J. H. LAMBERT, P. KUZMINSKI & M. CHOWDHURY (USA)
- 77 Reliability strength design through inverse distributions—exponential and Weibull cases
A. S. R. MURTY & V. N. A. NAIKAN (India)
- Technical Note**
- 83 Improving technical specifications from a risk perspective
INN SEOCK KIM (Korea)
- 89 Calendar

Numbers 2–3

Special Issue

Treatment of Aleatory and Epistemic Uncertainty

- 91 Guest Editorial
J. C. HELTON & D. E. BURMASTER (USA)
- 95 Uncertainties in Risk Analysis: Six Levels of Treatment
M. E. PATÉ-CORNELL (USA)
- 113 When to Separate Uncertainties and When Not to Separate
E. HOFER (Germany)

- 119 The Characterization of Uncertainty in Probabilistic Risk Assessments of Complex Systems
G. W. PARRY (USA)
- 127 Uncertainty in Probabilistic Risk Assessment
R. L. WINKLER (USA)
- 133 Different Methods are Needed to Propagate Ignorance and Variability
S. FERSON & L. R. GINZBURG (USA)
- 145 Probability, Conditional Probability and Complementary Cumulative Distribution Functions in Performance Assessment for Radioactive Waste Disposal
J. C. HELTON (USA)
- 165 Alternative Modeling Approaches for Contaminant Fate in Soils: Uncertainty, Variability, and Reliability
T. E. MCKONE (USA)
- 183 Assessing Uncertainty and Risk in Exploited Marine Populations
M. J. FOGARTY, R. K. MAYO, L. O'BRIEN, F. M. SERCHUK & A. A. ROSENBERG (USA)
- 197 The Use of Chernobyl Data to Test Model Predictions for Interindividual Variability of ¹³⁷Cs Concentrations in Humans
F. OWEN HOFFMAN & K. M. THIESSEN (USA)
- 203 Least-cost Failure Diagnosis in Uncertain Reliability Systems
L. A. COX JR, S. Y. CHIU & X. SUN (USA)
- 217 Aleatory and Epistemic Uncertainty in Probability Elicitation with an Example from Hazardous Waste Management
S. C. HORA (USA)
- 225 Two Methods for the Structured Assessment of Model Uncertainty by Experts in Performance Assessments of Radioactive Waste Repositories
E. ZIO & G. E. APOSTOLAKIS (USA)
- 243 On the Proper Formulation of Safety Goals and Assessment of Safety Margins for Rare and High-consequence Hazards
T. G. THEOFANOUS (USA)
- 259 Calendar

